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China Report

PLANT AND INSTALLATION DATA

No. 18

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I. METALLURGICAL INDUSTRY

Item: Maanshan Iron and Steel Company
[7456 7254 1472 6921 6993 0361 0674]

Location: Maanshan, Anhui, PRC

Data: In late January the Ministry of Metallurgical Industry held a meeting at the (Nanshan) Iron Mine of this company to introduce a new detonating method developed by the mine. Representatives of 62 factories, mines and scientific research units under the Ministries of Metallurgical Industry, Water Conservancy, Coal Industry, Railways, Second and Fifth Machine-building and National Defense attended the meeting. During the meeting the representatives heard reports on how the method reduced construction time and use of raw materials at the mine. They all agreed that the method can also be applied in opencut coal mining and harbor construction, and called for further study of the theory of detonation so that the new method could be applied in the transportation, civil engineering and military fields as well.

Source: Hefei Anhui Provincial Service in Mandarin 1100 GMT 20 Feb 80 OW

Item: Baoshan Iron and Steel Complex
[1405 1472 5114 0678 6921 6993 0617]

Location: Shanghai, PRC

Data: Ten large coal shafts are being sunk at coal mines in eastern China to provide more coal for this complex, according to the Ministry of Coal Industry. Work is also going ahead on three coal cleaning plants. Eventually it will produce six million metric tons of iron and six million metric tons of steel annually. The mines where the new shafts are being sunk are Xinglongzhuang Mine in Yanzhou, Shandong Province, which will produce three million metric tons of coal a year; Panji Mine No 1 in Huainan, Anhui Province (three million tons a year); Zhuxianzhuang Mine in Huaibei, Anhui Province, (1.2 million metric tons); Linhuan Mine in Huaibei (1.8 million metric tons) and Haikao Mine in Huaibei (1.5 million metric tons). The three coal cleaning plants will each handle three million metric tons of coal a year.

Source: Beijing XINHUA in English 0706 GMT 9 Mar 80 OW

Item: Guilin Geological Institute
[2710 2651 0966 6347 4282 4496 2070]

Location: Guilin, Guangxi, PRC

Data: This institute under the Ministry of Metallurgical Industry has cooperated with some 100 units in China in studying new techniques for obtaining rocks and minerals from prospecting pits. They achieved good results after 3 years of hard work. The new method is to use steel cable to replace drill rod and can save time and labor in picking rocks and minerals. The Ministry of Metallurgical Industry recently held a meeting in which the new technology was affirmed.

Source: Beijing XINHUA Domestic Service in Chinese 0122 GMT 6 Mar 80 OW

Item: Xi'an Transformer Furnace Plant
[6007 1344 6239 1090 0892 3619 0617]

Location: Xi'an, Shaanxi, PRC

Data: The first electric arc furnace to be built in China with a designed productive capacity of 75 metric tons of high quality steel per heat has recently been manufactured by this plant. It was specially designed by the plant and the Xi'an Research Institute of Electric Furnace Engineering, for the purpose of turning out high-quality alloy steels used in the production of forged and cast parts for 600,000-kilowatt generating units and other heavy industrial equipment. The furnace weighs 520 metric tons and is 16 meters high. XINHUA learned from departments under the State Council that the experience accumulated in designing and manufacturing of this arc furnace will be put to use in the construction of still larger furnaces of the same type.

Source: Beijing XINHUA in English 0137 GMT 19 Feb 80 OW

Item: Hubei Steel Ball Plant
[3275 0554 6921 3809 0617]

Location: Hubei Province, PRC

Data: This plant has cooperated with the Yaowan Commune in Yichang Municipality in setting up a casting plant and a material processing plant to meet its operational need owing to the great increase of the demand for its steel balls in the international market. After taking part in the joint investment, the commune can earn an annual profit of 100,000 yuan and provide employment for some of its members. The casting plant has already been put into operation with an annual output of 500 metric tons.

Source: Beijing XINHUA Domestic Service in Chinese 0216 GMT 25 Feb 80 OW

Item: Yunnan Geological Bureau
[7189 0589 0966 6347 1444]

Location: Yunnan Province, PRC

Data: Large deposits of manganese have been discovered in Yunnan Province, Southwest China, reports this bureau. About half the ore is of high grade. Detailed prospecting has been completed at two of the five major sections of the mining zone, which is in Yanshan County. The main part of the ore body is closed to the surface and local transportation is good.

Source: Beijing XINHUA in English 1200 GMT 5 Mar 80 OW

Item: Anshan Metallurgical Institute
[1344 1722 0396 6855 4282 4496 2076]

Location: Anshan, Liaoning, PRC

Data: This institute has been using its facilities to make money while engaging in research activities. Since early 1979 the institute has provided various technical services to enterprises and other research units, such as the analysis and examination of coal, coke and pitch. It also calibrates and repairs experimental instruments and produces various types of equipment for analyzing and examining coal quality. The institute has used the money earned to purchase necessary research equipment and materials, thereby helping resolve its research fund shortage.

Source: Beijing XINHUA Domestic Service in Chinese 0307 GMT 14 Feb 80 OW

Item: Anshan Iron and Steel Company
[1344 1772 6921 6993 0361 0674]

Location: Anshan, Liaoning, PRC

Data: This company fulfilled the production for January 1980. Output of major products, including pig iron, steel, steel billets and rolled steel, was higher than the corresponding period last year, with increases ranging from 20,000 to 35,000 metric tons. In a drive to conserve energy, this company saved 31,000 metric tons of fuel oil, 7.86 million kwh of electricity and 22 million cubic meters of natural gas in January.

Source: Shenyang Liaoning Provincial Service in Mandarin 1100 GMT 3 Feb 80 SK

Item: Northwest Aluminum Processing Plant
[6007 0554 6986 0502 1562 0617]

Location: Lanzhou, Kansu, PRC

Data: A new automatic device capable of detecting internal defects of huge round aluminum alloy ingot has been successfully developed and put into operation by this plant, the Institute of Nonferrous Metal Processing and Designing under the Ministry of Metallurgical Industry and the Institute of Automation under the same ministry. This automatic device is capable of detecting gas holes, cracks, white spots and other flaws in aluminum ingot.

Source: Beijing XINHUA Domestic Service in Chinese 0301 GMT 20 Mar 80 OW

Item: (Xiaohe) Iron Smelting Plant
[..... 3550 6993 0617]

Location: Tianshui Prefecture, Gansu, PRC

Data: This plant has succeeded in using iron filings to replace bituminous coal in sintering the iron ore. The iron ore used by this plant is limonite, which has been sintered before smelting. The previous sintering process consumed a considerable amount of bituminous coal. The new technique replaces bituminous coal with iron filings, which are ignited with a limited amount of powdered coke. Calculated on an estimated 6,000 metric tons of sintered ore smelted by the plant annually, the new technique can save 1,300 metric tons of fuel a year. This technique also has the advantage that the iron content of the sintered ore is increased by about 10 percent.

Source: Lanzhou Gansu Provincial Service in Mandarin 1125 GMT 18 Jan 80 SK

Item: Foshan Steel Foundry
[0154 1472 6999 6921 0617]

Location: Foshan City, Guangdong Province, PRC

Data: This plant manufactures various cast steel products of high-manganese and carbon steel, up to a maximum diameter of 3 meters and a maximum weight of 3 metric tons.

Source: Guangzhou NANFANG RIBAO in Chinese 14 Feb 80 p 3

II. TRANSPORTATION EQUIPMENT INDUSTRY

Item: Dongdu New Port
[2639 3256 2450 3263]

Location: Xiamen, Fujian, PRC

Data: This port construction project is divided into five stages. The first stage calls for the construction of four deep-water berths and corresponding facilities to enable the simultaneous mooring of four 10,000 to 50,000-ton-class vessels. The first-stage project is slated for completion by 1982.

Source: Hong Kong ZHONGGUO XINWEN in Chinese 24 Jan 80 p 2

Item: Shanghai Port Machinery Manufacturing Plant
[0006 3189 3263 0656 2623 2750 0455 6644 0617]

Location: Shanghai, PRC

Data: China's largest coal loader for ships was recently built at this plant. Designated as MZ1425, the coal loader has a maximum range (radius) of 31.5 meters and can transport 2,000 to 2,500 metric tons of coal per hour. The machine can also transport other bulky materials and is suitable for use on 25,000 to 50,000-ton bulk cargo ships. It can also perform loading operations on 70,000-ton bulk cargo vessels.

[Photo]

Source: Shanghai WEN HUI BAO in Chinese 25 Feb 80 p 1

Item: Changzhou Reinforced Plastic Boat Plant
[1603 1558 3788 3863 6921 5307 0617]

Location: Changzhou, Jiangsu, PRC

Data: In cooperation with the Shanghai Marine Equipment Research Institute, this plant has successfully trial built a completely sealed and fire-resistant life boat made of reinforced plastics. Measuring 8.5 meters in length, 2.8 meters in width and 1.95 in total height, the life boat can accommodate 38 persons. It withstood a 6-minute 30-second fire test with a flame temperature of 1,100°C. During the test, the temperature inside the boat was only 28°C, the air supply system maintained normal pressure, and the monkey, rabbit and white mice placed inside the boat survived.

Source: Beijing CHUANBO SHIJIE [SHIP WORLD] in Chinese 1 Feb 80 p 3

Item: Haimen Xian Reinforced Plastic Boat Plant
[3189 7024 4905 3788 3863 6921 5307 0617]

Location: Eastern suburbs of Haimen Countyseat, Jiangsu, PRC

Data: This plant was built in 1974. Its products include BJ30CB795--74 (7.5 meters) reinforced plastic motor-driven life boat, 5.6-meter survey boat, 4.9-meter sea-going work boat, battery-operated excursion boat and 5-meter skimmer, and 5.5-meter sea-going and inland river life boat. The plant is currently building a model 67 outboard motor to be mounted on a work boat that has a speed of 40 kilometers per hour. The main engine of the 5-meter jet skimmer is a Shanghai brand gasoline engine that can propel a boat at a speed of 45 kilometers an hour.

Source: Beijing CHUANBO SHIJIE [SHIP WORLD] in Chinese 15 Feb 80 p 2

Item: Mudanjiang Railway Subbureau
[3665 0030 3068 6993 6424 0433 1444]

Location: Mudanjiang, Heilongjiang, PRC

Data: This subbureau under the Harbin Railway Administration has set up 13 temporary stops along the railway lines under its jurisdiction to facilitate shipment of spring farming materials in remote production brigades. Instead of making scheduled stops, trains will stop whenever there is sufficient load or urgent need.

Source: Beijing XINHUA Domestic Service in Chinese 0257 GMT 15 Mar 80 OW

Item: Shantou Shipyard
[3073 7333 0208 5307 0617]

Location: Shantou, Guangdong, PRC

Data: This shipyard, which can overhaul 5,000-ton ships, recently went into operation. It was specially built for foreign and other ships visiting this busy South China port.

Source: Beijing XINHUA in English 0731 GMT . Mar 80 OW

III. ELECTRONIC AND PRECISION EQUIPMENT INDUSTRIES

Item: Beijing Television Set Plant
[0554 0079 7193 6018 2623 0617]

Location: Beijing, PRC

Data: Two production lines to make 12-inch black-and-white T.V. sets recently went into operation here. One equipped entirely by China and the other using some imported techniques. Together they will turn out 240,000 sets a year. Computerized parameter testing and other new techniques are incorporated in the new production line at this plant, which turns out 60,000 sets a year. The line was built completely with China-made materials and equipment. The other production line, at Beijing's Dongfeng T.V. Plant, was transformed from an old one which had produced nine-inch sets. It now has an annual capacity of 180,000 sets. Fifteen kinds of tools and instruments for this production line were imported from Japan. They accounted for 15.9 percent of the total investment.

Source: Beijing XINHUA in English 1241 GMT 23 Jan 80 OW

Item: Zhejiang Institute of Computing Technology
[3181 3068 4164 6060 4615 2111 5890 4282 4496 2076]

Location: Probably Hangzhou, Zhejiang, PRC

Data: This institute has successfully trial-produced a DZS-183-A multi-purpose electronic computer. The speed of its internal memory is 1.4 microseconds. The speed for each basic computing cycle by the computer has reached 340 nanoseconds, and its highest computing speed is close to 400,000 computations per second. The capacity of its internal memory is 28k words and 44.8 bits, while the capacity of its external memory is 80k words. This type of computer can be used in mathematical calculations, data processing, enterprise management and production control for the development of the national economy. During the testing period, the computer has been put to use continuously for 133 hours without a single breakdown.

Source: Hangzhou Zhejiang Provincial Service in Mandarin 1100 GMT 6 Feb 80 OW

Item: Ningxia Repair and Manufacture Plant
[1380 1115 0208 6644 0617]

Location: Probably Yinchuan, Ningxia, PRC

Data: The Ningxia Electric Power Testing Center and this plant have successfully produced a 600,000-volt light direct-current device, which is used to detect flaws and hitches of high-voltage electric cables and certain electrical installations. It is only one-tenth in weight compared with its counterpart made in foreign countries. It is now in limited batch production in Ningxia.

Source: Beijing XINHUA Domestic Service in Chinese 0157 GMT 15 Feb 80 OW

Item: Shanghai Technical Physics Institute
[0006 3189 2111 5890 3670 3810 4282 4496 2076]

Location: Shanghai, PRC

Data: An aerial multi-spectrascanner was recently produced here by this institute. The institute began design work on the scanner in 1977. The components are all made in China. The aerial multi-spectra scanner, which operates from a plane in flight, is able to sense spectral energy from the reflection and radiation of the terrestrial and subterrestrial matter thousands of metres below, and records the photographic information on tape and film. The scanner is widely applicable in geography, geology, agriculture, forestry, hydrogeology and environmental protection.

Source: Beijing XINHUA in English 0808 GMT 19 Jan 80 OW

Item: Institute of Physics of the Chinese Academy of Sciences
[0022 0948 4430 1331 7108 3670 3810 4282 4496 2070]

Location: Beijing, PRC

Data: China's first molecular beam extension (feng zi shu wai yan 0433 1311 2631 1120 1693) equipment has been successfully studied and produced in Shenyang, Liaoning. According to the appraisal by departments concerned, its major capacity equals that of similar equipment abroad. The success in producing this equipment creates the necessary experimental means for China to study the dynamics of crystal growth, undertake research on the surfaces of solid bodies and develop new materials and devices. This large precision instrument, which involves modern technologies, including ultrahigh vacuum, electron optics, electron energy spectrum, detection of faint signals and processing of precision machinery, was studied and produced by this institute of the Chinese Academy of Sciences and the Lanzhou Institute of Physics of the Space Academy in coordination with some other units.

Source: Beijing XINHUA Domestic Service in Chinese 0130 GMT 30 Jan 80 OW

Item: Yunnan University
[7189 0589 1129 1331]

Location: Kunming, Yunnan, PRC

Data: A high-resolution scanning electron microscope (SEM) to be used in medical and scientific research, has been built in this university. It was unveiled recently before more than 70 scientists from health departments, universities and research institutes. The scanning microscope, which has a resolution power of better than 100 angstrom (an angstrom is equivalent to 1/100 millionth of a centimeter), was designed by associate professor Chen Ergun and fellow teachers at the university's physics department. It uses an iridium gun as the electron source instead of the usual tungsten gun. This iridium gun lasts nearly 7 times longer than the tungsten gun. The SEM provides clear secondary images. The physics department of Yunnan University is known throughout China for its work in the fields of astrophysics and high-energy physics. Scanning electron microscopes have been produced in several Chinese scientific instrument plants.

Source: Beijing XINHUA in English 1238 GMT 24 Jan 80 OW

Item: Shanghai Plant No 101
[0006 3189 0001 7190 0001 0617]

Location: Shanghai, PRC

Data: This plant has manufactured China's first electronic quartz digital clock radio. This radio, designed for family use, is similar to those manufactured in the advanced countries.

Source: Beijing RENMIN RIBAO in Chinese 24 Jan 80 p 3

Item: Jiangmen Radio Plant No 1
[3068 7024 3541 4848 7193 0617]

Location: Jiangmen, Guangdong Province, PRC

Data: This plant is currently manufacturing the MTD-13 desk calculator, SKJ model numerically controlled machine cutting tools, and other industrial electronically automated control devices, including liquid meters, special-use electronic calculators, sequentially controlled instruments, train arrival time indicators, plastic group control units and leather measuring devices.

Source: Guangzhou NANFANG RIBAO in Chinese 17 Feb 80 p 3

Item: Hangzhou Switch Plant
[2635 1558 7030 7070 0617]

Location: Hangzhou, Zhejiang, PRC

Data: This plant produces the KGPS series silicon controlled rectifier medium frequency power source used in metal smelting, diathermancy, quenching and welding. Also produced are JCK series program control devices, DW10 series universal automatic air switches, and low voltage switchplate power transmission control devices.

Source: Beijing CONGREN RIBAO in Chinese 13 Feb 80 p 6

Item: Qingdao Rectifier Plant
[7230 1497 2419 3177 0892 0617]

Location: Qingdao, Shandong, PRC

Data: This plant produces the series KGBTA continuous power supply, used in electronic computer centers and in automatic control centers, or wherever there is a need for a continuous power source. It also produces the KGGJ high-pressure silicon rectifier equipment used in electrostatic precipitators, KGCA series silicon controlled rectifiers for electrical charging and KGYA series silicon controlled rectifiers for various special usages.

Source: Beijing CONGREN RIBAO in Chinese 13 Feb 80 p 6

Item: Hefei Radio Plant No 1
[0678 5142 3541 4775 7193 0001 0617]

Location: Hefei, Anhui, PRC

Data: In response to a call for corporation management reform, on 9 February 1980 this plant held democratic elections for plant director. Plant party committee secretary Zhou Xianbin [6650 0341 1755] was elected new plant director for a term of 3 years. This plant, owned by the whole people, is a complete machine assembly plant for electronic products. It manufactures both wired and wireless test instruments for use in communications, scientific research, and in other fields.

Source: Beijing GONGREN RIBAO in Chinese 13 Feb 80 p 1

Item: Tianjin City Automated Instrument and Meter Plant No 12
[1131 3160 1579 5261 0520 0553 0308 5903 0577 0059 0617]

Location: Tianjin City, PRC

Data: This plant was formerly known as the Yonghong Automated Components Plant [3057 4767 5261 0520 0553 0337 0115 0617]. It now manufactures fluid level signals, flow signals, oil immersion switches and electromagnetic valves.

Source: Beijing GONGREN RIBAO in Chinese 14 Feb 80 p 3

Item: Tianjin Semiconductor Plant No 4
[1131 3160 1579 4574 0934 0584 1418 7555 0115 0617]

Location: Tianjin City, PRC

Data: This plant produces electronic component parts, including the MOS field-effect tube series, varactors for use in electronic tuning circuits in VHF and UHF receivers, and P-MOS series integrated circuits.

Source: Guangzhou NANFANG RIBAO in Chinese 9 Dec 79 p 3

Item: Tianjin Automatic Instrument and Meter Plant
[1131 3160 5261 0520 0553 0308 5903 0617]

Location: Tianjin, PRC

Data: In cooperation with eight other units, including the Chongqing Automatic Instrument and Meter Institute, this plant has successfully built a CK-710 industrial control computer. In the course of controlling the production processes, this type of computer can accurately handle problems with a calculating speed of 80,000 operations per second, making it possible for the automatic controls of production processes in metallurgical, hydroelectric power, petroleum, chemical and light industrial plants.

Source: Tianjin TIANJIN RIBAO in Chinese 8 Mar 80 p 1

Item: Tianjin Broadcasting Equipment and Materials Plant
[1131 3160 1684 2330 0892 2624 0617]

Location: Tianjin, PRC

Data: This state-owned plant recently succeeded in trial producing a Star brand receiving/recording machine that is up to State technical standards. The dual-purpose machine can perform either as a receiver or a recorder. It can also receive broadcast while performing recording operation. The recording section of this machine is equipped with automatic stop and temporary stop mechanisms.

Source: Beijing BEIJING RIBAO in Chinese 22 Feb 80 p 1

Item: Jiangxi Radio Plant
[3068 6007 3541 4848 7193 0617]

Location: Probably Nanchang, Jiangxi, PRC

Data: This plant, a military industrial enterprise, has set up an assembly line for the production of phonographs for civilian consumption. The assembly line is capable of producing 100,000 sets of phonographs annually, up from last year's 3,000 sets.

Source: Beijing XINHUA Domestic Service in Chinese 0207 GMT 15 Feb 80 OW

IV. CHEMICAL INDUSTRY

Item: Guangzhou Petrochemical Plant
[1639 1558 4258 3111 0553 1562 0617]

Location: Guangzhou, Guangdong Province, PRC

Data: This plant was singled out this month for its problems in dealing with an overaccumulation of stockpiles of urea fertilizer. An estimated 10,000 metric tons of urea was observed piled within the plant in bags, with some torn and spilling their contents over the surface. It was reported that in September 1979 more than 200 metric tons of urea were ruined because of a heavy rainfall while the chemical lay piled in the plant area. Because of this, plant operations were suspended for 6 days, decreasing production of fertilizer by close to 7,000 metric tons, and costing 700,000 yuan a day in lost production. This accumulation problem is due to a shortage of railway transportation away from the plant, and the overall lack of coordination between those responsible for connecting shipment from the railroad to the port at Huangpu. Also, the quality of packaging of the urea is not up to standard, and this creates problems in handling the material. There is also a lack of demand for the fertilizer within Guangdong Province because of the availability of the product from other areas.

Source: Guangzhou NANFANG RIBAO in Chinese 9 Dec 79 p 1

Item: Zhuzhou Chemical Plant
[2701 3166 0553 1562 0617]

Location: Qinghuitang, Zhuzhou City, Hunan, PRC

Data: By making use of the zinc-containing flue from the nearby Zhouzhou Smelting Plant [2701 3166 0396 3550 0617] to produce sulfuric acid and by recovering waste gas to make many "short-line" chemical products, this plant has created values worth more than its entire current assets. From 1968 when it started operation to the end of 1979, the plant turned out 740,000 metric tons of sulfuric acid, valued at more than 88 million yuan. It supplies over 100 factories and mines in five provinces with the sulfuric acid made from zinc-containing flue. The workers here also produce 1,200 metric tons of sodium fluorosilicate from recovered fluorine annually, earning for the state 2.6 million \$U.S. in foreign exchange a year. In 1976 this plant added a recovery tower in the agricultural chemicals workshop to recover nearly 20,000 cubic meters of argon annually for the factories and mines in the vicinity. Argon is "inseparable" with the national defense, scientific research and electronic departments.

Source: Beijing RENMIN RIBAO in Chinese 11 Mar 80 p 3

Item: Wujiang Synthetic Chemicals Plant
[0702 3068 0678 2052 0553 1562 0617]

Location: Wujiang County, Jiangsu, PRC

Data: This plant manufactures the S-203 ion-exchange membrane diffusion dialyser which is chiefly used in metallurgy, chemical industry, medicine, and papermaking for the recovery and synthesis of acidic waste liquids and the removal or dilution of the three wastes.

Source: Beijing GONGREN RIBAO in Chinese 13 Feb 80 p 5

Item: China Chemicals Export and Import Corporation
[0022 0948 0553 1562 6651 0427 0656 0361 0674]

Location: Jinan, Shandong, PRC

Data: The Shandong branch of this corporation had exported more than 140,000 metric tons of crude oil and some 30,000 drums of asphalt by 15 January, earning some \$US24 million in foreign exchange.

Source: Jinan Shandong Provincial Service in Mandarin 2300 GMT 23 Jan 80 SK

Item: Shenyang Coal Gas Plant
[3476 7122 3561 3051 0617]

Location: Shenyang, Liaoning, PRC

Data: Construction of this project began in October 1979. Plant buildings covering 40,000 square meters of floor space are nearing completion. When finished in about 3 years, this plant, the largest of its kind built in China, can produce 541,000 cubic meters of coal gas daily. It is the first plant in the country to utilize brown coal for making gas for civilian use.

Source: Hong Kong ZHONGGUO XINWEN in Chinese 21 Jan 80 p 1

Item: Ma'an Coal Mine
[7456 1344 3561 4349]

Location: Zhaoqing, Guangdong, PRC

Data: Although this mine had 19.2 percent fewer personnel for January 1980 than during the same period the year before, new tunneling footage increased by 24.8 percent over that same period. Work efficiency for tunneling increased by 58.7 percent, while production efficiency rose 11.1 percent. Total personnel work efficiency increased 5.95 percent and coal output was equal to 58.18 percent of the first quarter production goal.

Source: Guangzhou NANFANG RIBAO in Chinese 12 Feb 80 p 2

Item: Honggong Mining Administration Bureau
[4767 1572 4349 0523 1444]

Location: Guangdong, PRC

Data: For January 1980, this bureau registered a total coal output of 602,485 metric tons, 7,484 metric tons over the planned output for that month. The bureau also tunneled a total of 9,197 meters, 1,347 meters over the planned total footage.

Source: Guangzhou NANFANG RIBAO in Chinese 12 Feb 80 p 2

Item: Nanling Coal Mine
[0589 1545 3561 4349]

Location: Guangdong, PRC

Data: In January 1980 this mine surpassed the planned coal production figure by 10.8 percent and the completed tunneling total by 20.6 percent. This mine had a very safe year in 1979, the best in the last 10 years. This record was continued during January 1980, with no major engineering mishaps or personnel injuries occurring. Engineering quality standard was rated as high as 92 percent.

Source: Guangzhou NANFANG RIBAO in Chinese 12 Feb 80 p 2

Item: Guangzhou City Coal Construction Company
[1639 1558 1579 3561 1696 0361 0674]

Location: Guangzhou, Guangdong, PRC

Data: This company has successfully trial produced an easily-combustible honeycomb briquet. Small-batch production has begun, and test marketing of the material commenced on 1 December 1979. This briquet has the advantage of being easily ignited.

Source: Guangzhou NANFANG RIBAO in Chinese 2 Dec 79 p 1

Item: Xijin Hydroelectric Power Station
[6007 3160 3055 7193 0617]

Location: On the Xi Jiang, Guangxi Province, PRC

Data: Total electrical power generated at this plant for January 1980, exceeded the state plan by 26 percent, due mostly to the plant's adoption of measures to increase conservation. Internal use of electricity by the plant was also lowered 15 percent under the original plan.

Source: Beijing RENMIN RIBAO in Chinese 9 Feb 80 p 2

Item: Datong Mining Administration Bureau
[1129 0681 4349 0523 1444]

Location: Datong, Shanxi, PRC

Data: In January this bureau mined over 2,170,000 metric tons of raw coal, which represents the highest monthly total in history. Also, there were over 30,650 meters tunneled, a figure which overfulfilled the state plan by over 1,300 meters.

Source: Beijing RENMIN RIBAO in Chinese 9 Feb 80 p 2

Item: Hefei Electric Power Supply Bureau
[0678 5142 0180 7193 0500 1444]

Location: Hefei, Anhui, PRC

Data: Workers of this bureau have recently completed the construction of a 110,000 volt high pressure electric power transmission line between the (Nanjiu) Transformer Station of Hefei and Shucheng County in Anhui Province.

Source: Hefei Anhui Provincial Service in Mandarin 1100 GMT 10 Mar 80 OW

Item: Shenyang Pressurized Gasification Plant
[3088 7122 0502 1090 3049 0553 0617]

Location: Shenyang, Liaoning, PRC

Data: Construction on this plant began recently. When completed, the plant will be able to produce 540,000 cubic meters of gas daily for several hundred thousand local residents of the industrial city of Shenyang, whose 3.7 million people are dependent chiefly on coal as fuel. Air pollution in the Shenyang area will be greatly reduced when this new plant becomes operational.

Source: Beijing XINHUA Domestic Service in Chinese 0143 GMT 2 Mar 80 OW

Item: Zhanhua Power Plant
[.... 7193 0617]

Location: Shandong Province, PRC

Data: The second 125,000-kilowatt generating unit of this plant recently went into operation. Thus, the construction of this plant is completed. Built by Shengli Oilfield for its own use, this power plant is capable of generating 250,000 kilowatt of electricity.

Source: Beijing XINHUA Domestic Service in Chinese 0220 GMT 14 Feb 80 OW

VI. MACHINE-BUILDING INDUSTRY

Item: Shanghai Machinery and Electrical Equipment Bureau No 1
[0006 3189 2623 7193 0001 1444]

Location: Shanghai, PRC

Data: This bureau has determined that, starting with 1980, all 125,000-kilowatt turbogenerators manufactured and supplied by this bureau in Shanghai will be installed with a high-pressure heating apparatus. Turbogenerators already installed with this heater each have an increased annual electrical generating capacity of approximately 2 billion kilowatt-hours, equal to the total yearly generating capacity of 13 ordinary 125,000-kilowatt turbogenerators. This can result in a savings of 19 million yuan in fuel oil.

Source: Beijing GONGREN RIBAO in Chinese 8 Feb 80 p 1

Item: Huahui Electrical Machinery Repair Plant
[5478 6540 7193 2623 0208 3810 0617]

Location: Guangzhou, Guangdong Province, PRC

Data: This plant is responsible for the repair and rebuilding of various models of high voltage electric motors, A.C. and D.C. electric motors, generators, A.C. and D.C. electrical equipment for ships use, A.C. and D.C. electric welders and electrical converters.

Source: Guangzhou NANFANG RIBAO in Chinese 14 Feb 80 p 2

Item: Nanhai Xian Second Light [Industry] Machinery and Tools Plant
[0589 3189 4905 0059 6535 2623 0367 0617]

Location: Nanhai County, Guangdong Province, PRC

Data: Among the products manufactured at this plant are the 6135 electrical generating unit with specifications of 120 horsepower and 80 kilowatts, the CW6163 lathe, the C-620-G lathe with specifications of 400 x 1200 and 400 c 2000, and the C41-25 air hammer.

Source: Guangzhou NANFANG RIBAO in Chinese 17 Feb 80 p 3

Item: Dalian Machine Tools Plant
[1129 6647 2623 1643 0617]

Location: Dalian, Liaoning, PRC

Data: Among the items produced at this plant are single and multi-way machines, indexing-table machines, indexing-drum machines, multi-spindle vertical drilling and boring machines and transfer lines.

Source: Beijing BEIJING REVIEW in English Vol 23 No 9, 3 Mar 80 p 32

Item: Qingping State-Operated Machinery Plant
[0948 3602 3237 1627 2623 2750 0617]

Location: Shandong, PRC

Data: This small-module gear plant manufactures navigational instruments for use on ships. In 1979 the plant met its planned production quota 42 days ahead of schedule, and returned over 580,000 yuan in profit to the state.

Source: Beijing GONGREN RIBAO in Chinese 11 Feb 80 p 2

Item: Dalian Combination Machine Tool Institute
[1129 6647 4809 0678 2623 1643 4282 4496 2076]

Location: Dalian, Liaoning, PRC

Data: China's first automated piston processing and assembling line was recently built by this institute, subordinate to the First Ministry of Machine-Building. Equipped with pneumatic automatic measuring device, vibrating charging mechanism, fault finder, constant torsion moment control device and sequence control mechanism, this automatic line is designed to do the final precision work on certain type of diesel engine piston bolt holes and to complete many complicated assembly works.

Source: Hong Kong ZHONGGUO XINWEN in Chinese 1 Feb 80 p 1

Item: Shenyang Heavy Machinery and Equipment Plant
[3088 7122 6850 0992 2623 0892 0617]

Location: Shenyang City, Liaoning, PRC

Data: This plant manufactures various types of mining equipment, including jaw-crushers, cone-crushers and sintering machines, various kinds of forging equipment, including die forging machines, free forging hammers, and hydraulic punch presses, and steel rolling equipment, including blooming mills, section mills and roll straighteners. Also produced at this plant are rolling machines, arbor presses, rotary kilns, horizontal vulcanizers and vulvanizing tanks.

Source: Beijing GONGREN RIBAO in Chinese 13 Feb 80 p 5

Item: Yunnan Tin Company
[0061 0589 6932 2814 0361 0674]

Location: Kunming, Yunnan, PRC

Data: Last year this company's machinery repair plant began the process of canvassing work to be of better service to its consumers. In the past, the plant served only this company, and did not accept outside orders for service or parts. However, because of a drop in orders from the parent company, the plant decided to accept orders from other consumers. As a result of this new method of operation, last year's canvassed orders represented 23 percent of all work performed that year, and profits handed over to the state increased by 120,000 yuan over the previous year.

Source: Beijing GONGREN RIBAO in Chinese 9 Feb 80 p 2

Item: Yuanyichang State Machinery Plant
[1639 1558 1579 0948 3602 3109 0589 0954 5669 1034 2623 2750 0617]

Location: Henan, Guangzhou, Guangdong, PRC

Data: This plant produces a coal grinder for use in supplying two- to twenty-ton boilers, and a coal feeder to be used in conjunction with the coal grinder.

Source: Guangzhou NANFANG RIBAO in Chinese 9 Dec 79 p 4

Item: Huanghua Machinery Plant No 51
[7806 7520 0063 0001 2623 2750 0617]

Location: Huanghua Xian, Hebei, PRC

Data: This plant produces the BW 600/30 slurry pump, which has a top pressure of 30 kilograms per square centimeter and displacement of up to 600 liters per minute.

Source: Beijing GONGREN RIBAO in Chinese 13 Feb 80 p 5

Item: Lingnan Flexible Pipe and Shaft Plant
[1545 0589 6516 4619 6516 6519 0617]

Location: Guangzhou, PRC

Data: Among the products manufactured by this plant are the model ZX-50 planetary-type high-frequency concrete vibrator, and the series motor high-frequency immersion-type concrete vibrator. Steel wire flexible shafts are also produced, as well as various types of flexible pipe.

Source: Guangzhou NANFANG RIBAO in Chinese 9 Dec 79 p 4

Item: Beijing Tool Plant
[0554 0079 1562 0367 0617]

Location: Beijing City, PRC

Data: This plant produces various types of gear-cutting tools, broach-cutting tools, and general cutting tools, including gear hobbing cutters, sprocket hobs, worm gear hobs, disc-shaped slotting tools, twist drills, sawtooth milling cutters and groove milling cutters.

Source: Beijing CONGREN RIBAO in Chinese 13 Feb 80 p 6

Item: Foshan Electrical Equipment Plant
[0154 1472 7193 0892 0617]

Location: Foshan City, Guangdong Province, PRC

Data: Starting with the second quarter of 1979, this plant changed to a new procedure of manufacturing products which are in demand or which are in short supply. It is now producing manual voltage regulators for use on televisions, and energy-saving transformers for 6-volt, 9-volt and 12-volt light bulbs, along with other electrical products of over 100 specifications, all of which are in great demand. The plant is also trial-manufacturing on small scale an automatic air-blast breaker and a fully automatic voltage regulator, along with a magnetic saturation voltage regulator and other products.

Source: Guangzhou NANFANG RIBAO in Chinese 9 Nov 79 p 1

Item: Jiangmen Chemical Industry Machinery Plant
[3068 7024 0553 1562 2623 2750 0617]

Location: Jiangmen City, Guangdong Province, PRC

Data: This plant's major product is sugar-processing machinery, which is sold in over 10 other provinces and exported to 13 countries in Europe, Asia and Africa. In 1979 the plant expanded into the production of replacement parts by constructing a workshop especially for these parts, and began to accept customer orders in this area. The plant also guaranteed the quality and quantity of its products, accepting returns, exchanges and repairs.

Source: Guangzhou NANFANG RIBAO in Chinese 9 Nov 79 p 1

Item: Kunming Machinery Plant No 2
[2492 2494 4574 0059 2623 0892 0617]

Location: Kunming, Yunnan, PRC

Data: Following an extensive marketing survey, this plant recently changed its emphasis from equipment manufacture back to repair and maintenance. The plant was formerly a repair station dealing exclusively with equipment maintenance, but during the 1970's changed to the manufacture of various models of lathes and milling machines. In 1979 the determination was that to avoid losses caused by overproduction, the plant should emphasize maintenance over production. By November of 1979, the plant had signed 75 repair contracts with 35 different plants.

Source: Beijing GONGREN RIBAO in Chinese 12 Feb 80 p 2

Item: Chongqing Tool Plant
[6850 1987 1562 0367 0617]

Location: Chongqing, Sichuan, PRC

Data: This plant has achieved notable results in the recovery and use of leftover materials and scrap steel from the production process. In the past two and one-half years, the plant has smelted and reprocessed over 200 metric tons of high-speed steel, and used this material to make 120,000 lathe tools, with a total market value of 700,000 yuan. This reprocessing and sale gave the plant a profit along with solving the problem of industrial waste disposal. The major products of this plant are gear-cutting tools, which must be formed from high-speed steel.

Source: Beijing GONGREN RIBAO in Chinese 13 Feb 80 p 2

Item: Luoyang Machine Tool Plant
[3157 7122 2623 1643 0617]

Location: Luoyang, Henan, PRC

Data: Following a marketing survey conducted by the directors in 1979, this plant changed its operations from the production of low-demand items such as portable steam engines and universal milling machines, to the manufacture of products in high demand in light industry. The plant is placing particular emphasis upon the production of woodworking planers and spiral winders.

Source: Beijing GONGREN RIBAO in Chinese 12 Feb 80 p 2

Item: Yongchuan Hydraulic Parts Plant
[3057 1557 3210 1090 0115 0617]

Location: Yongchuan, west of Chongqing, Sichuan, PRC

Data: Since it started operation in 1970, this state-run plant, one of the largest of its kind in China, has supplied the industrial departments in the country with "several hundred thousand" hydraulic elements and parts for marine, engineering, hoisting and construction machinery. In addition to the newly designed 320 kg/cm² high pressure series and 210 kg/cm² intermediate high pressure series hydraulic parts (including hydraulic pumps, valves and cylinders), the plant turns out all kinds of special hydraulic components, such as hydraulic press, energy storage equipment and hydraulic valve parts.

Source: Beijing CHUANBO SHIJIE [SHIP WORLD] in Chinese 1 Feb 80 p 3

Item: Shanghai Hydro-engineering Machinery Plant
[0006 3189 2623 2750 0617]

Location: Shanghai, PRC

Data: This plant designed and built China's first 100-ton trailer. It is equipped with all-wheel controllable hydraulic steering mechanism and its turning radius is smaller than that of similar products manufactured abroad. Built in only 65 days, the trailer has gone through a 1,800-kilometer test with full load. The successful manufacture of this trailer has created favorable conditions for the serialization, universal compatibility and standardization of heavy-duty trailers in China.

Source: Shanghai WEN HUI BAO in Chinese 2 Mar 80 p 3

Item: Shanghai Machine Tool Plant No 11
[0006 3189 4574 0677 0001 2623 1643 0617]

Location: Shanghai, PRC

Data: This plant has successfully trial-produced a new, light multi-purpose machine tool--the F-1111 type machine tool. While it was on display at the trade fair in Guangzhou last fall, businessmen from the United States, Britain, France, Canada, Mexico and New Zealand placed an order for it immediately on the spot. It is 1.3 meters long, 0.4 meter wide and 1 meter high and is 550 kg in weight. Capacity of this new machine tool includes boring holes and milling and cutting plane of machine parts. It also can mill and cut gears of seven or eight specifications. The new machine tool is now in mass production.

Source: Beijing XINHUA Domestic Service in Chinese 0139 GMT 15 Feb 80 OW

Item: Heavy Machine-Building Plant No 2
[4574 0059 6850 0992 2623 2750 0617]

Location: [Beijing], PRC

Data: China has produced an ultra-heavy steel plate rolling mill and its trial operation proved successful. Manufactured by this plant and other factories, the 4.2 meter mill can roll plates 3,900mm wide and from 8mm to 250mm thick. Out of 40,000 metric tons of steel plates it has produced, 97.85 percent were up to the set standard. In the past, China had to import such plates. The new machine will turn out specified rolled steel plates for ships, bridges and industries including atomic energy and defense.

Source: Beijing XINHUA in English 1233 GMT 6 Mar 80 OW

Item: Yichuan Xian Ball Bearing Plant
[0122 1557 4905 3340 3796 0617]

Location: Yichuan County, Henan, PRC

Data: This plant has succeeded in developing a new type of rolling bearing for use in gear-wheel drills. The adoption of this bearing will prolong the life of drills by 100 percent.

Source: Beijing XINHUA Domestic Service in Chinese 0253 GMT 15 Mar 80 OW

Item: Luoyang Bearing Plant
[3157 7122 6519 2110 0617]

Location: Luoyang, Henan, PRC

Data: This plant is a major industrial enterprise in China. Its bearing production in January and February 1980 increased by 11 percent as compared with that of the corresponding period in 1979. The up-to-standard rate of its products is steadily kept at about 93 percent. Since the fall of 1979, foreign customers have placed orders with the plant for 5.83 million sets of bearings.

Source: Beijing XINHUA Domestic Service in Chinese 0212 GMT 19 Mar 80 OW

VII. AGRICULTURAL MACHINERY INDUSTRY

Item: Wenzhou Tractor Plant
[3306 1558 2151 2139 2623 0617]

Location: Wenzhou, Zhejiang, PRC

Data: This plant produced 5,685 Model 175 tractors last year and over-fulfilled the 1979 production plan by more than 1,000 tractors. This year the plant's production plan more than doubles last year's. As of 18 February, the plant had produced over 1,500 Model 175 tractors.

Source: Hangzhou Zhejiang Provincial Service in Mandarin 1100 GMT 25 Feb 80 OW

VIII. MISCELLANEOUS INDUSTRIES

Item: Beijing Refractory Material Plant
[0554 0079 5082 3499 2624 2436 0617]

Location: Beijing, PRC

Data: This plant has trial produced a refractory fiber of aluminum silicate whose heat resistance capacity of more than 1,000 degrees has earned it the name "magic cotton." In addition to being the raw material for felt, blankets, cloth, paper, rope and other products, it can be used as refractory lining for furnaces and kilns with its high heat insulation capacity, which saves fuel. Compared to common refractory bricks, refractory lining of aluminum silicate fiber can save between 15 to 30 percent more oil, gas or electricity. The Shanghai Boiler Plant has used the fiber as refractory lining for its large heat-treatment furnace for 21 months. Oil consumption by this furnace has been reduced by 20 to 30 percent and the furnace capacity expanded by 68 percent. The Tianjin Automatic Meters and Instruments Plant has saved over 40,000 KWH of electricity in a year by using this fiber to renovate a 25-kw electric furnace. Now the fiber is being mass produced.

Source: Beijing XINHUA Domestic Service in Chinese 0144 GMT 28 Feb 80 OW

Item: Shaoyang City Battery Plant
[6730 7122 1579 7193 3069 0617]

Location: Shaoyang City, Hunan, PRC

Data: From the beginning of 1979 to February 1980, this plant recovered a total of 10,240 liang [Chinese ounce] of silver, representing a total value of over 74,000 yuan. This silver was recovered from silver acetate waste liquid and from old zinc-mercury cells.

Source: Beijing GONGREN RIBAO in Chinese 8 Feb 80 p 1

Item: Taiyuan Cement Plant
[1132 0626 3055 3136 0617]

Location: Taiyuan, Shanxi, PRC

Data: This plant recently made an agreement with the Taiyuan Electrolytic Copper Plant to have water and slag shipped to the cement plant by truck in the event the normal route for the raw material is interrupted. The plant uses the water and slag as a raw material to produce cement. Normally, it is obtained from the Taiyuan Iron and Steel Company. However, at times this supply is cut off because of crowded railroad schedules.

Source: Beijing CONGREN RIBAO in Chinese 9 Feb 80 p 2

Item: Wuhan Cotton Mill No 1
[2976 3063 4574 0059 2758 4791 0617]

Location: Wuhan City, Hubei Province, PRC

Data: In 1980 this mill began producing three new types of textile items: 45-strand finecloth, 30-strand twill and 21-strand venetian.

Source: Beijing RENMIN RIBAO in Chinese 19 Feb 80 p 1

Item: Xiangzhou Woolen Mill
[7449 3166 3029 4791 0617]

Location: Zhuhai City, Guangdong Province, PRC

Data: A ceremony marking the start of production at this recently constructed plant was held on 7 November 1979. Production will specialize in rabbit hair-blended yarn, cashmere yarn and lambswool yarn. This plant is part of a compensatory trade project signed between the Guangdong branch of the China National Textiles Import and Export Corporation and Yongxin Enterprises Limited and its subsidiary company, Macao Textiles Limited, both of Hong Kong. Construction began on the plant in November 1978, and production began in May 1979. The plant building covers 4,400 square meters and contains two workshops. Installations include a combing machine and a spindle, both part of a relatively advanced set of wool-spinning equipment. Planned production capacity is for 1.2 million pounds of single-strand 16-count high quality knitting wool yarn a year.

Source: Guangzhou NANFANG RIBAO in Chinese 9 Nov 79 p 1

Item: Xianyang Paper Mill
[0752 7122 6644 4786 0617]

Location: Xianyang, Shaanxi, PRC

Data: After undertaking a program to increase conservation and production, this plant's production of machine-made paper for January 1980 jumped 39 percent over the totals for the same period the year before. Also, the cost for producing 1 metric ton of paper decreased by 10 percent, and the gross value of industrial output increased by 32 percent over the same period the year before. The plant also overcame shortages of caustic soda and talc by signing new contracts for delivery of the vital raw materials from Xian, Lanzhou, Beijing and other areas.

Source: Beijing RENMIN RIBAO in Chinese 9 Feb 80 p 2

Item: Nanhai Electric Wire Plant
[0589 3189 7193 4848 0617]

Location: Nanhai, Guangdong Province, PRC

Data: This plant produces various types of electrical cable, including plastic-insulated triplex copper cable, all-plastic [sic] communication cable, all-plastic [sic] control cable, all-plastic [sic] power cable, automobile wiring assemblies and copper-aluminum core plastic-insulated wiring.

Source: Guangzhou NANFANG RIBAO in Chinese 19 Feb 80 p 4

Item: Maanshan Meat Processing Plant
[7456 7254 1472 5131 7352 0502 1562 0617]

Location: Maanshan, Anhui, PRC

Data: This plant project covering an area of 17,900 square meters was completed in late December 1979. A complete set of polluted water treatment equipment has been installed. It is equipped with a large cold storage, slaughtering, machinery repair and other workshops. The large cold storage warehouse covers 5,890 square meters of floor space and can store 1,500 metric tons of frozen meat. The plant has the capacity of slaughtering and processing 500 hogs and 5,000 fowls daily.

Source: Hong Kong ZHONGGUO XINWEN in Chinese 31 Jan 80 p 4

Item: Shaoxing Electroplating Plant
[4801 5281 7193 6947 0617]

Location: Shaoxing, Zhejiang, PRC

Data: This plant has completed a waste water decontaminating facility. The facility, the largest in Zhejiang Province, can decontaminate the plant's waste water which has chromium content. In the decontaminating process, the facility can recover 3 metric tons of chromic acid and 60,000 metric tons of water yearly.

Source: Hangzhou Zhejiang Provincial Service in Mandarin 0400 GMT 20 Mar 80 OW

IX. PHOTOGRAPHS OF INDUSTRIAL FACILITIES



Fig. 1 View of a "new industrial city" in Qinghai-Xining

[Source: Shanghai WEN HUI BAO 9 Feb 80 p 1]



Fig. 2 A view of the new passenger/freight station at Ningbo Port. The station covers 9,575 square meters of floor space. The four waiting rooms can accommodate 3,000 travelers at one time.

[Source: Beijing GONGREN RIBAO 26 Feb 80 p 1]



Fig. 3 Another 200,000-KW generating unit of the Matou Power Plant in Hebei has been incorporated into the power grid. Located south of the Fengfeng Coal Mine, the Matou Power Plant has a total installed capacity of 650,000 kilowatts.

[Source: Tianjin TIANJIN RIBAO 25 Feb 80 p 4]

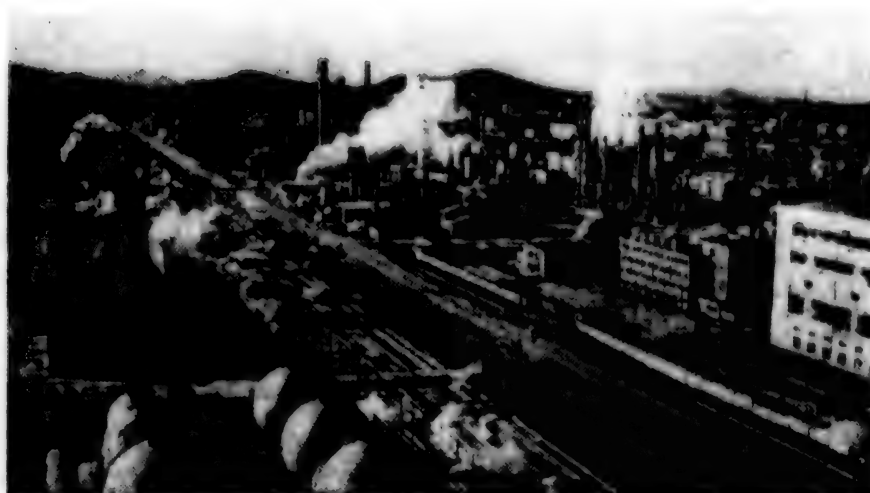


Fig. 4 External view of the Liaoyang General Petrochemical Fiber Plant that has gone into partial operation. This project is scheduled for completion in 1980.

[Source: Shanghai WEN HUI BAO 13 Jan 80 p 1]

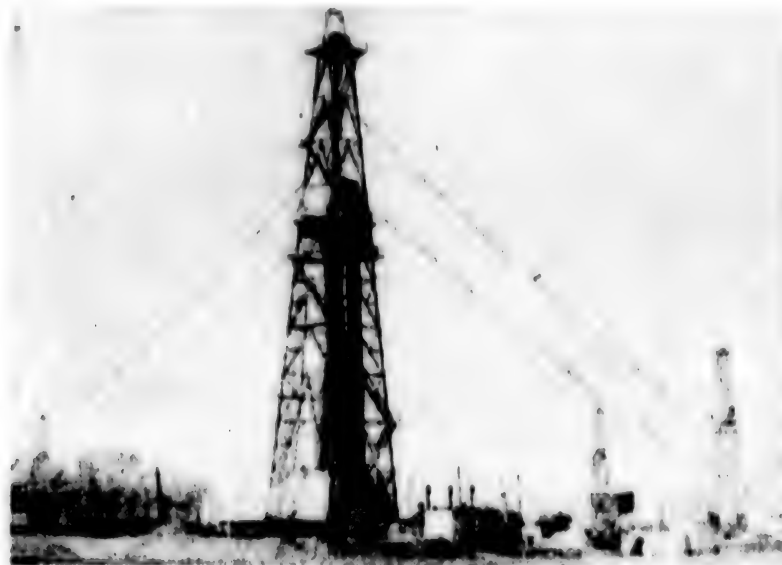


Fig. 5 Group of well drills in the newly discovered Dongpu Oilfield at the Shandong-Henan boundary

[Source: Beijing BEIJING RIBAO 27 Feb 80 p 4]



Fig. 6 The newly built rubber plant of the Yueyang General Chemical Plant in Hunan Province has an annual output capacity of 15,000 metric tons of synthetic rubber. The plant conducted a trial run in mid-December 1979.

[Source: Beijing GUANGMING RIBAO 23 Mar 80 p 1]

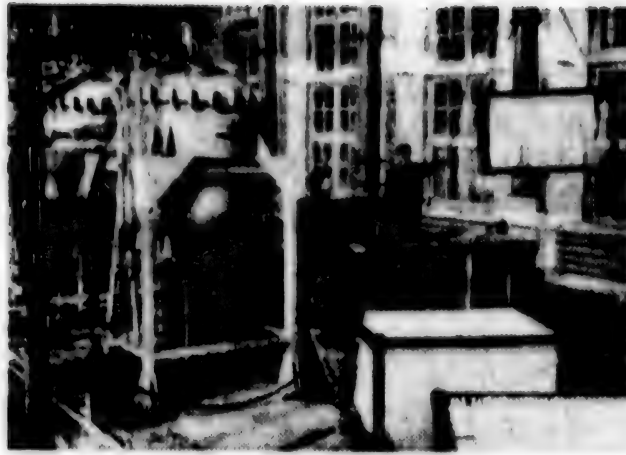


Fig. 7 The Xingping Fiber Glass Plant in Shaanxi recently put into operation a high silica fiber glass production line.

[Source: Beijing GUANGMING RIBAO 28 Jan 80 p 1]



Fig. 8 A view of the Weidong Hydroelectric Station on the Liuxihe River in Guangdong Province

[Source: Guangzhou NANFANG RIBAO 19 Feb 80 p 1]

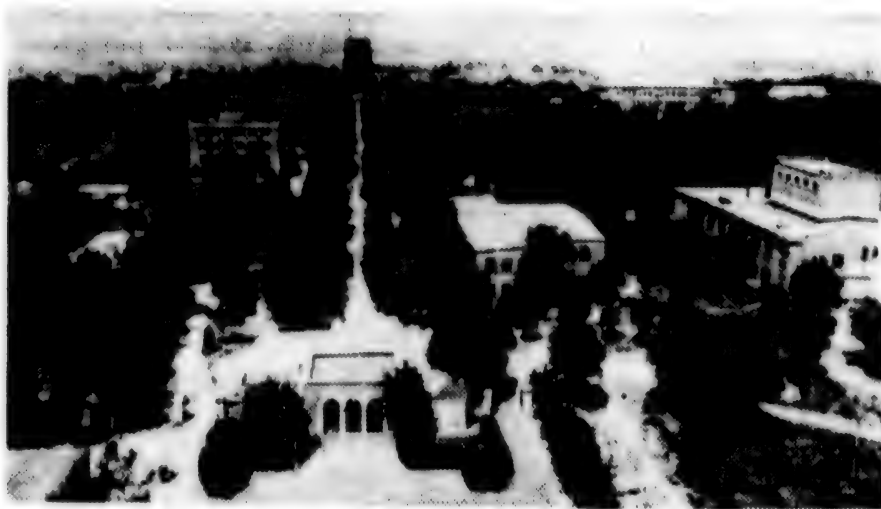


Fig. 9 A view of the Nuclear Energy Research Institute of the Chinese Academy of Sciences

[Source: Shanghai WEN HUI BAO 7 Mar 80 p 1]



Fig. 10 View of the new industrial city of Shiyan in northwestern Hubei, where China's largest automobile factory, Motor Vehicle Manufacturing Plant No 2 and the Dongfeng Tire Plant are located.

[Source: Beijing GONGREN RIBAO 14 Mar 80 p 4]



Fig. 11 Photograph of "Dongfeng" 5-ton trucks on the general assembly line
at the Motor Vehicle Manufacturing Plant No 2 in Hubei
[Source: Beijing GONGREN RIBAO 14 Mar 80 p 4]



Fig. 12 View of the Motor Vehicle Manufacturing Plant No 2 in Shiyan City, Hubei

[Source: Beijing JIEFANGJUN HUABAO (LIBERATION ARMY PICTORIAL) No 2, 1980 p 30]



Fig. 13 A night view of the Heshan Power Plant, the largest thermal power plant in Guangxi

[Source: Beijing MINZU HUABAO (NATIONALITIES PICTORIAL) No 2, 1980 p 29]



Fig. 14 A sectional view of the Yongan Vinylon Plant in Fujian Province. In 1978 this plant produced 7,500 metric tons of vinylon short fiber. It turned out over 4,000 metric tons of short fiber during the first half of 1979.

[Source: Fuzhou FUJIAN HUABAO (FUJIAN PICTORIAL) No 4, Aug 79 p 12]

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